IN THE CLAIMS

Kindly amend claims 1, 23 and 24 as follows:

1. (Amended) A method for the production of an organic molecule having a desired property, comprising the steps of:

(a) providing a [starting group of] reaction mixture with at least 10 different organic molecules in solution in the same reaction container;

(b) causing at least one chemical reaction to take place with at least some of the different organic molecules in the [starting group] reaction mixture to create [an intermediate] a reaction mixture having one or more organic molecules different from the organic molecules in the starting group of the previous step;

(c) repeating step (b) at least once by [substituting the intermediate reaction mixture as the starting group] causing at least one chemical reaction to take place with at least some of the organic molecules in the reaction mixture from the previous step or repetition to thereby produce a final reaction mixture as a result of the last repetition; and

(d) screening the final reaction mixture resulting from step (c) for the presence of the organic molecule having the desired property.

23. (Amended) A method for the production of an organic molecule having a desired property, comprising the steps of:

(a) providing a [starting group of] reaction mixture with at least 10 different organic molecules in solution in the same reaction container;

(b) causing at least one chemical reaction to take place with at least some of the different organic molecules in the [starting group] reaction mixture to create [an intermediate] a reaction mixture having one or more organic molecules different from the organic molecules in the starting group of the previous step;

(c) repeating step (b) at least once by [substituting the intermediate reaction mixture as the starting group] causing at least one chemical reaction to take place with at least some of the organic molecules in the reaction mixture from the previous step or repetition to thereby produce a final reaction mixture as a result of the last repetition; and

(d) screening the final reaction mixture resulting from step (c) for the presence of the organic molecule having the desired property; and

(e) if the organic molecule is found in the final reaction mixture, then performing the following additional steps:

(1) dividing the [starting group of] reaction mixture of step (a) with different organic molecules into at least two subgroups, each containing less than all of the different organic molecules in the starting group;

(2) performing steps (b) and (c) on each of the subgroups in the same way as performed with the [starting group] reaction mixture of step (a) to produce a final reaction submixture corresponding to each of the subgroups;

(3) screening each of the final reaction submixtures resulting from step (2) for the presence of the organic molecule having the desired property; and

(4) repeating at least once, steps (1) through (3) for at least one of the successful subgroups from which the organic molecule having the desired property is produced, by substituting the successful subgroup as the [subgroup] reaction mixture in step (1) to thereby identify a narrowed group of different organic molecules from which the compound having the desired property can be produced.

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24. (Amended) A method for the production of an organic molecule having a desired property, comprising the steps of:

(a) providing a [starting group of] reaction mixture with at least 10 different organic molecules in solution in the same reaction container;

(b) causing at least one chemical reaction to take place with at least some of the different organic molecules in the [starting group] reaction mixture to create [an intermediate] a reaction mixture having one or more organic molecules different from the organic molecules in the starting group of the previous step;

(c) repeating step (b) at least once by [substituting the intermediate reaction mixture as the starting group] causing at least one chemical reaction to take place with at least some of the organic molecules in the reaction mixture from the previous step or repetition to thereby produce a final reaction mixture as a result of the last repetition;

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(d) screening the final reaction mixture resulting from step (c) for the presence of the organic molecule having the desired property; and

(e) if the organic molecule having the desired property is found in the final reaction mixture, then performing the following additional steps:

(1) providing at least two additional [starting groups of] reaction mixtures with at least 10 different organic molecules, each additional [starting group] reaction mixture corresponding to the [starting group] reaction mixture of step (a);

(2) performing steps (b) and (c) on each of the additional [starting groups] reactions mixtures in the same way as performed with the [starting group] reaction mixtures of step (a) with the exception that, for each of the additional [starting groups] reactions mixtures, at least one of the chemical reactions is eliminated to thereby produce an additional final reaction mixture from each of the additional [starting groups] reactions mixtures;

(3) screening each of the additional final reaction mixtures resulting from step (2) for the presence of the organic molecule having the desired property;

(4) repeating, at least once, steps (1) through (3) for at least one of the successful additional [starting groups] reaction mixtures from which the organic molecule having the desired property is produced, by [substituting] using the successful additional [starting group] reaction mixture as the additional [starting group] reaction mixture in step (1) to thereby identify a narrowed group of chemical reactions from which the compound having the desired property can be produced.

REMARKS

Support for the amendments above is found throughout the specification.

Respectfully Submitted,

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